INSTRUCTIONS

MANUEL D'INSTRUCTIONS/BEDIENUNGSANLEITUNG/GEBRUIKSAANWIJZING

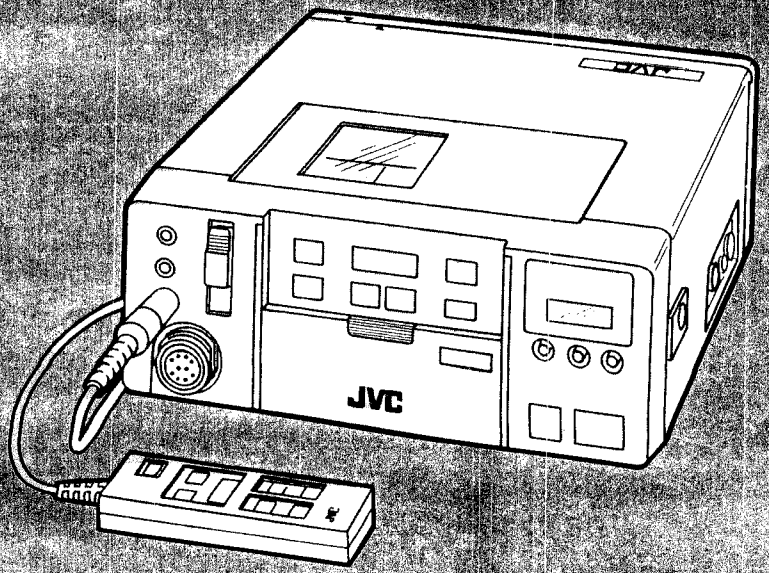
JVC

HR-C3

COMPACT VIDEO CASSETTE RECORDER

MAGNETOSCOPE COMPACT
COMPACT-VIDEO-CASSETTEN-RECORDER
KOMPAKT VIDEOCASSETTERECORDER

VHS C

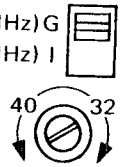


Specifically for the HR-C3EG
Spécial pour le HR-C3EG
Bedienungsanleitung für das Modell HR-C3EG
Van toepassing op de HR-C3EG

WARNING

This set is for exclusive use with the PAL colour system.
Connect a video camera built to the PAL standard.

CAUTION:
To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.



ATTENTION:
The system select switch on the bottom of the unit has been set to G (Continental PAL, 5.5 MHz).

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN CR MOISTURE.

This unit should be used with 12 V DC only.
CAUTION:
To prevent electric shocks and fire hazards, do NOT use any other power source.

IMPORTANT: It is permissible to record television programmes only in the event that third party copyrights and other rights are not violated.

NOTE:
The rating plate (serial number plate) and the safety caution are on the bottom of the unit.

VHS C
PAL

This compact video cassette recorder is designed exclusively for the VHS C *video cassette. Only cassettes marked* VHS C *can be used with this recorder.*

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Printed in Japan

Thank you for purchasing the JVC HR-C3, a VHS recorder that is truly portable. The HR-C3 is specially designed for use in combination with a video camera and can be connected directly to a television receiver for playback. Because the HR-C3 is compatible with other VHS machines, the VHS-C tapes recorded by the HR-C3 can be played back with a regular VHS machine using a cassette adapter or conveniently be dubbed to standard VHS tapes for home viewing. Because of its light weight and compact size, we are sure that you will find the HR-C3 ideal for use wherever you go and that it will help you add variety to your video programming.

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FEATURES

Recording/Playback
Up to 30 minutes of fully VHS-compatible recording and playback is possible with a single VHS compact video cassette.

RF converter
With its built-in RF converter that can be tuned to UHF channels 32 – 40, the HR-C3 can be connected directly to the antenna terminal of a TV set, for playback of recorded material. Switchable between G system (5.5 MHz) and I system (6.0 MHz).

Automatic backspace editing
When the camera's stop button is pressed during recording, the tape is automatically backspaced slightly. When recording is resumed, the video signal of the continuing sequence is recorded exactly at the point where the previous section was stopped. This all but eliminates picture distortion between the two recorded sequences.

Automatic quick review function
When the tape is being backspaced, if the camera has an electronic viewfinder or if the HR-C3 is connected to a video monitor, the last second of the recording will be seen in reverse. This allows you to check that satisfactory recording was made.

Standby mode lock
With the convenient recording standby mode lock, even when the power is switched off between separately recorded sequences, the new sequence is synchronized with the previously recorded sequence so that virtually no distracting picture distortion results when recording resumes.

Audio dubbing
The audio dubbing facility makes recording a new soundtrack possible – narration from a microphone, for example – onto an already recorded programme.

Two-way shuttle search
So that any recorded sequence can be located quickly, the tape can be fast forwarded or rewound at three times normal speed with the picture visible on a TV screen or in the camera's electronic viewfinder.

Full-function remote control
The full-function remote control gives control over all tape functions including shuttle search and audio dubbing as well as power on/off from a distance.

Switchable LCD counter
This low power-consuming tape counter has a memory function for quick location of a predetermined point on the tape (the counter reading of around "0000") and can be switched to show the remaining time left for recording.

Flexible power supply
An ingenious power supply system is employed; the power supply units slide onto the rear panel of the HR-C3 and click into position. The standard battery pack has a capacity of 0.7 AH, enough to power the HR-C3 and a video camera for 30 minutes. An exclusive battery charger is provided to charge this battery pack (in approx. 60 min.) and the optional 50-minute 1.2 AH high-capacity battery pack (in approx. 90 min.). Two other power supply units are available; the AC power pack and the car battery adapter.

PRECAUTIONS

Handling and storage

- Prevent inflammables, water and metallic objects from entering the unit.
- Do not disassemble or modify the unit, as this will cause danger and malfunctioning.
- Do not use the unit when there is lightning in the vicinity and exercise special care not to allow the unit to become wet when shooting outdoors on rainy days.
- Do not place heavy objects on the unit.
- Do not subject the unit to vibrations or shocks.
- Do not subject the unit to direct sunlight or place it near a heater for a long period of time, otherwise the cabinet may become deformed or the internal electronic components such as transistors may be damaged. Pay special attention to rising temperature in closed cars on hot summer days; the temperature in closed cars sometimes reaches as high as 80°C.
- Avoid using the unit under the following conditions:
  - Extremely hot or cold places
  - Near appliances generating strong magnetic fields
  - Moving from a cold to a warm place
  - Places subject to excessive humidity, dust or vibrations.

Moisture condensation

You have observed that pouring a cold liquid into a glass will cause drops of water to form on the glass's outer surface. This same phenomenon occurs on the head drum of a video recorder when the recorder is moved from a warm place to a cool place. Moisture on the head drum can cause severe damage to the video tape, and can lead to internal damage to the recorder itself. If moisture condensation occurs on the head drum, the DEW indicator lights. In such a case, be especially careful to allow sufficient time for it to dry before operating the machine. See page 16.

Maintenance

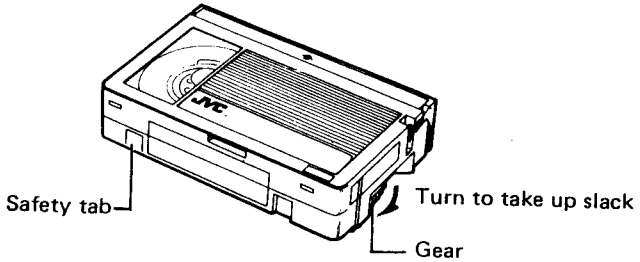
- When the cabinet is dusty, clean by gently wiping with a soft cloth.
- Avoid the use of strong cleaning agents such as benzine or alcohol as they may damage the cabinet.

Serious malfunctioning

If malfunctioning occurs, stop using the unit immediately and consult your local JVC dealer.

Video cassettes

- The HR-C3 employs compact video cassettes carrying the VHS C mark only.
- Recording onto prerecorded tapes automatically erases the previously recorded video and audio signals.
- An inverted cassette cannot be inserted.
- Do not load and unload the cassette repeatedly without allowing the tape to run at all. This will slacken the tape and thereby damage it.
- Make certain before loading the cassette that the tape is not slackened. If there is any slack, turn the gear on the cassette in the direction of the arrow to take up slack.
- The cassette is equipped with a safety tab to prevent accidental erasure. When the tab is removed, recording is impossible. If you wish to record on a cassette whose tab has been removed, use adhesive tape to reseal the slot.

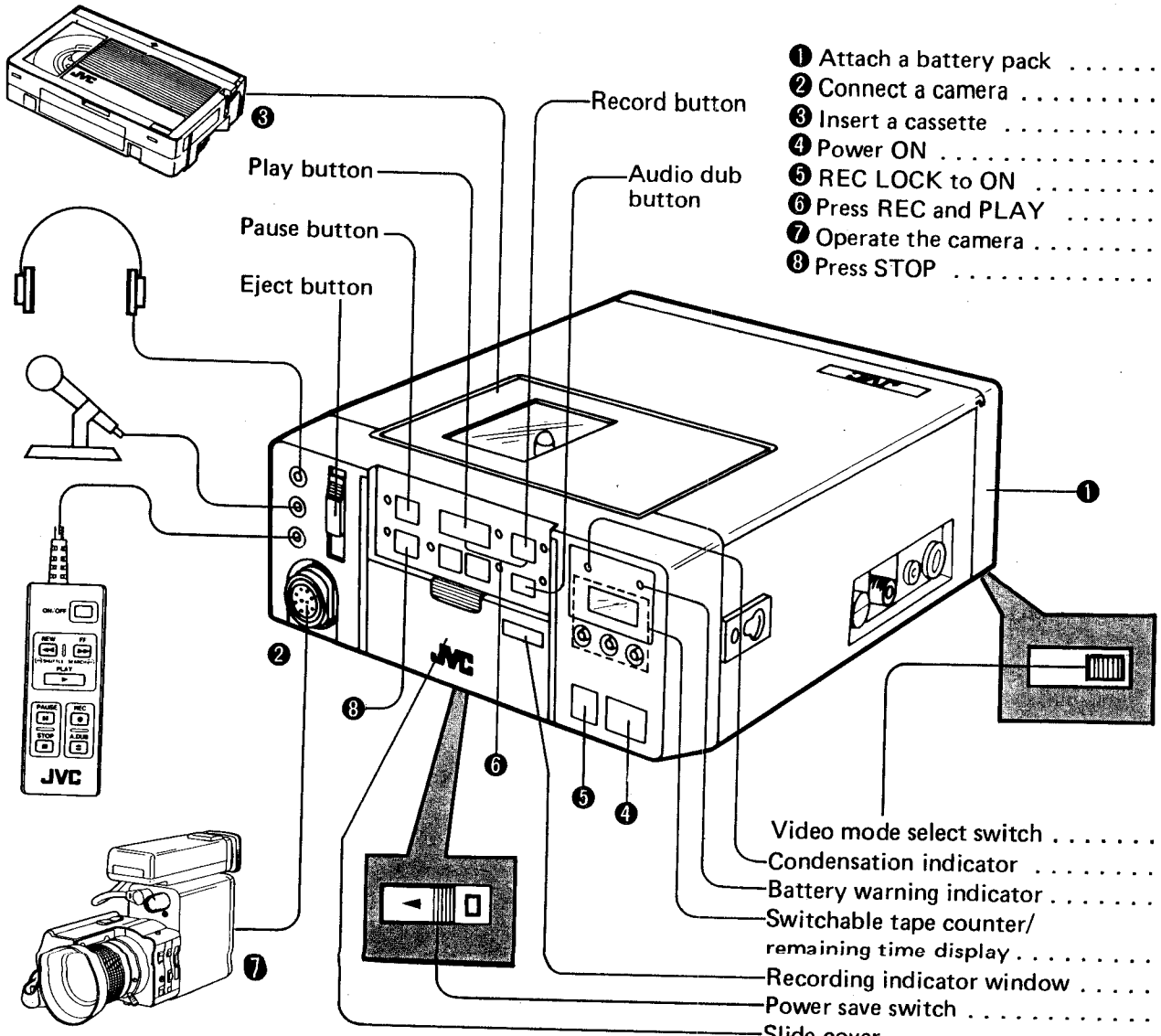


- To avoid excessive exposure to dust and fingerprints, do not open the front tape cover.

Storage of cassettes

- Avoid exposing the cassettes to direct sunlight. Keep them away from heaters.
- Avoid storing the cassettes in humid or dusty places.
- Do not drop the cassettes. Do not expose them to violent vibrations or shocks.
- Do not expose the cassettes to strong magnetic fields (near a motor, transformer or magnet).
- Place the cassettes in cassette cases and position them vertically.

BASIC OPERATION PROCEDURE – RECORDING WITH A CAMERA



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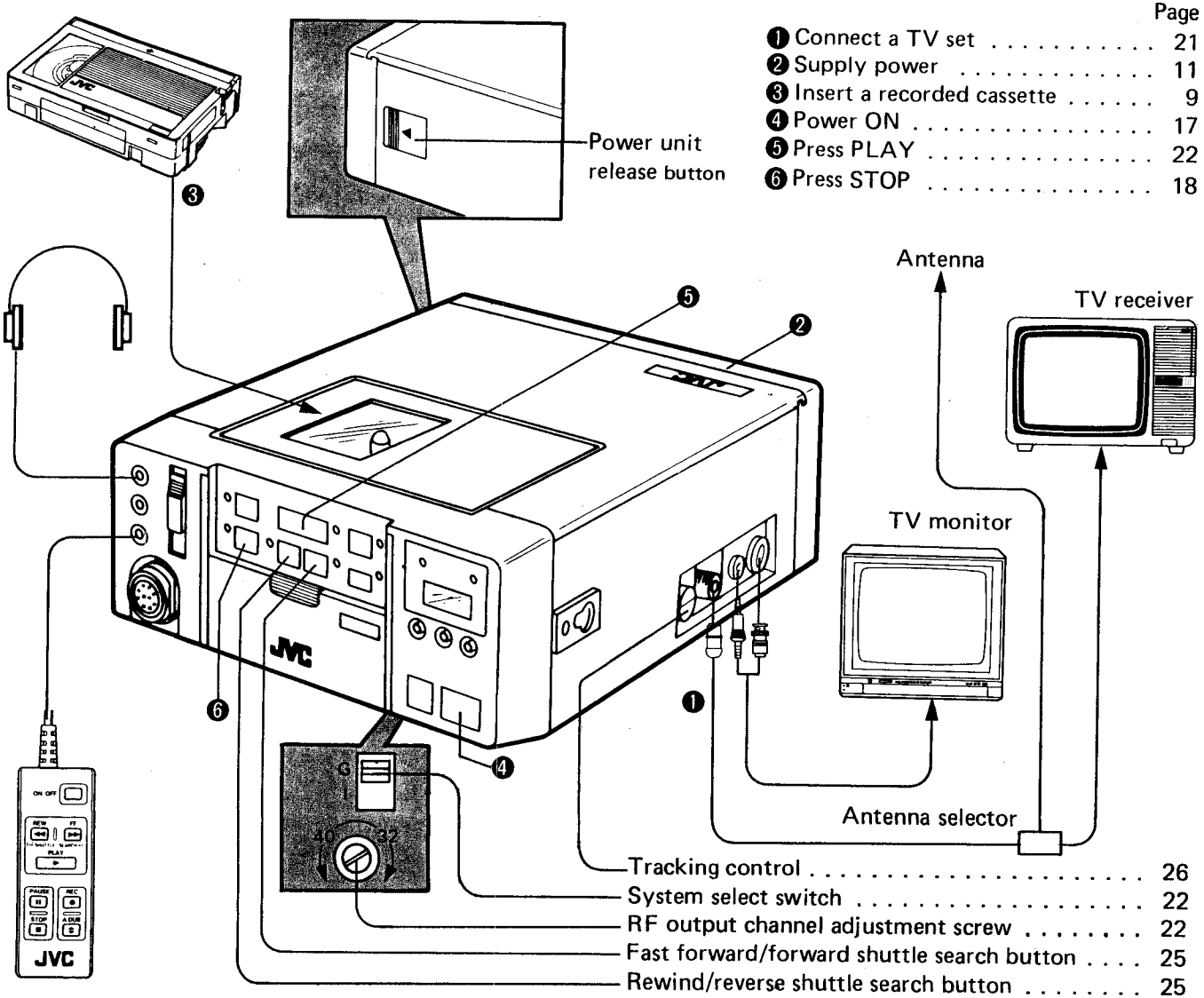
Battery warning indicator 15
Switchable tape counter/ remaining time display 16
Recording indicator window 15
Power save switch 20
Slide cover 17

BASIC OPERATION PROCEDURE—PLAYBACK



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❹ Power ON	17
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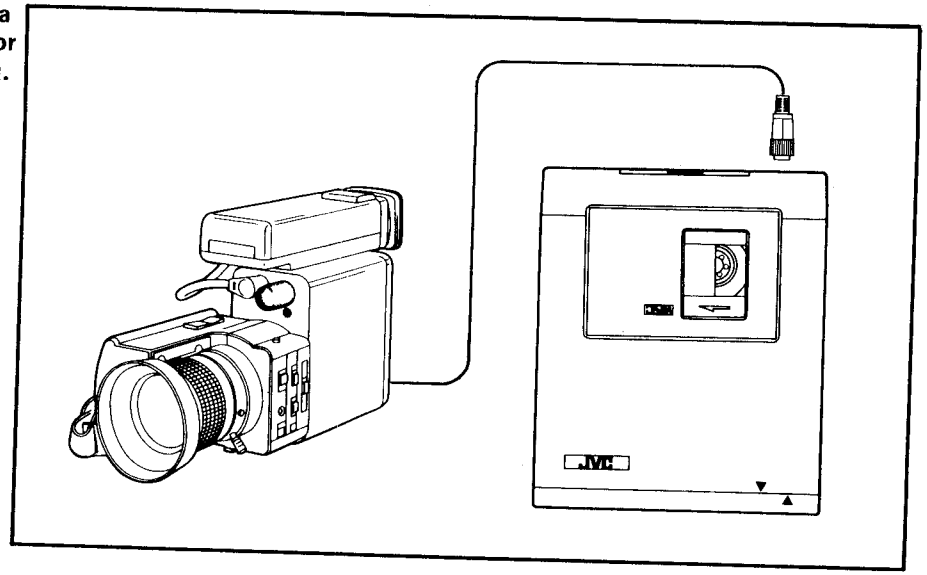
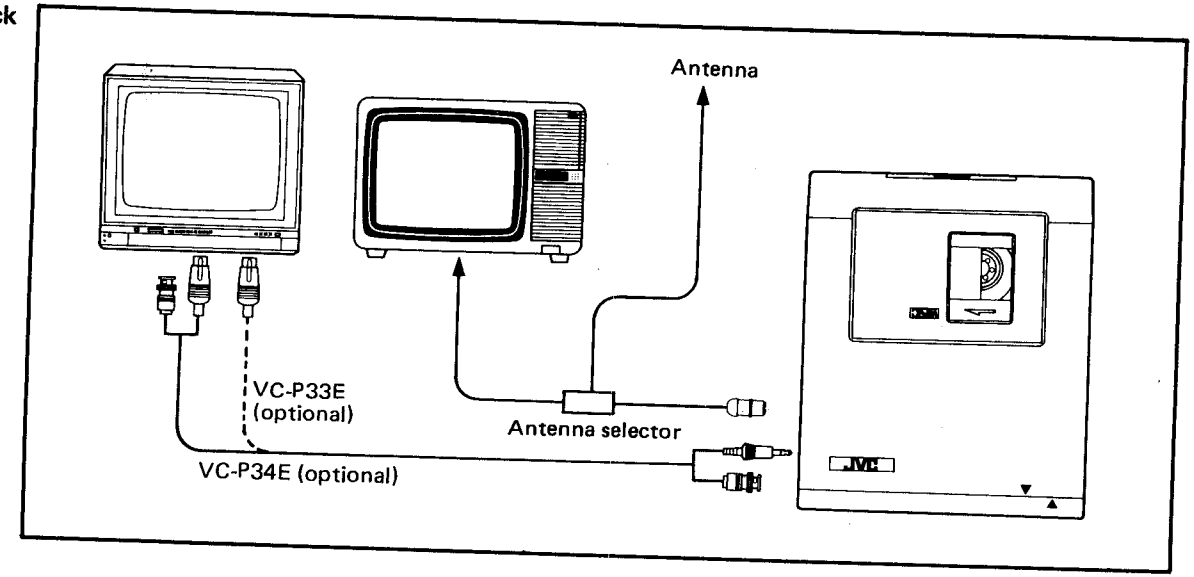
WAYS THE HR-C3 CAN BE USED

1 Connect a camera for recording.

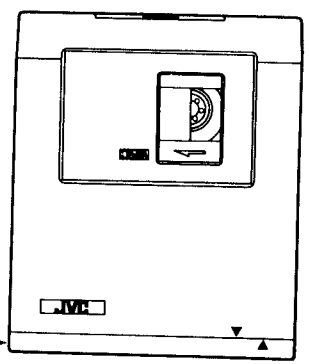


2 Playback

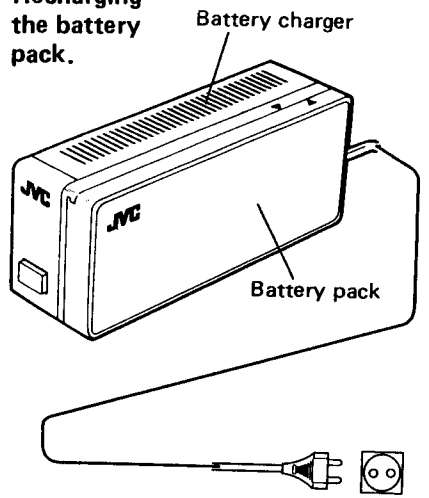


3 There are various power supply options.

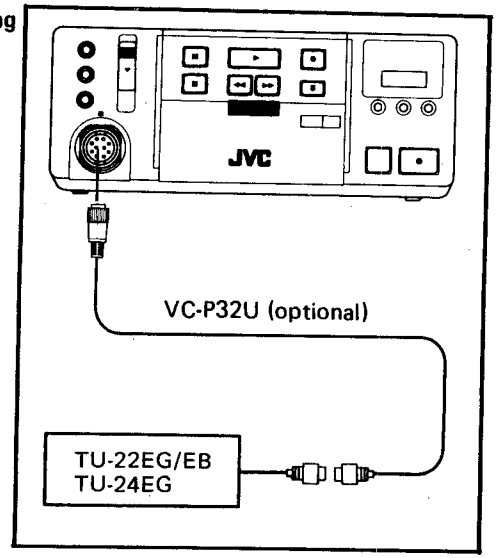
- Regular battery pack NB-P3U (0.7 AH) (standard)
- High-capacity battery pack NB-P4U (1.2 AH) (optional)
- AC power pack AC-P3EG (optional)
- Car battery adapter AP-P3E (optional)



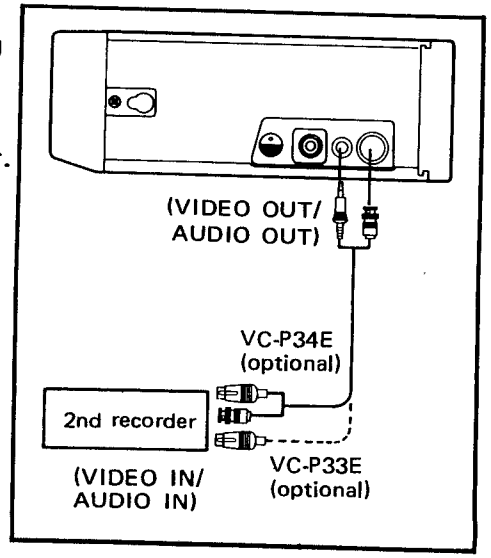
Recharging the battery pack.



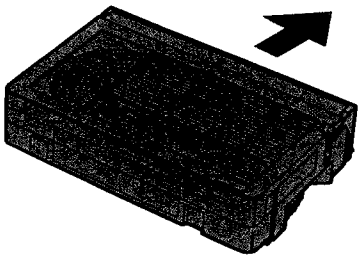
4 Recording from a tuner.



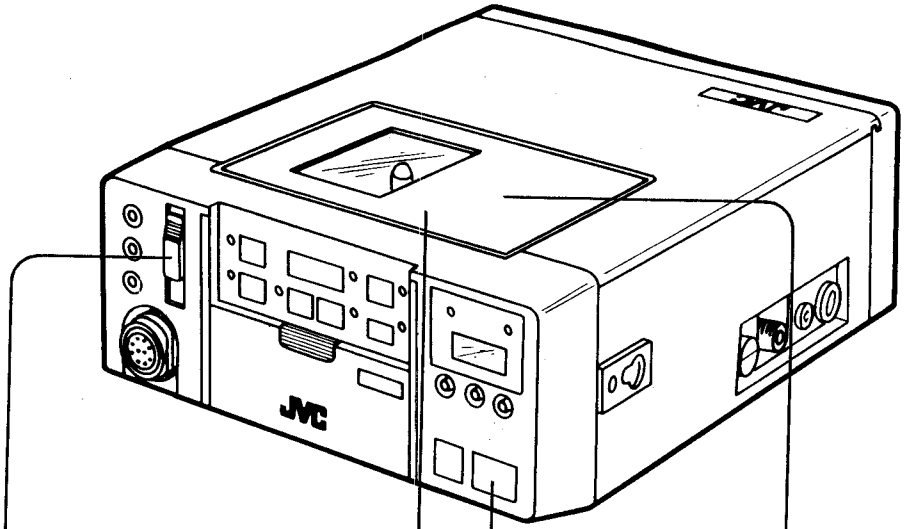
5 Tape dubbing onto another video recorder.



LOADING A VIDEO CASSETTE



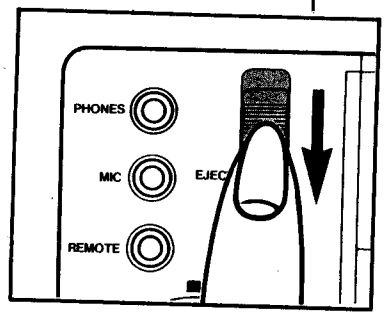
Insert the cassette with its printed arrow upward.



POWER button

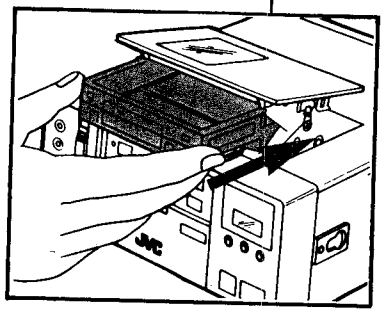
If the EJECT button will not slide down, first switch on the power.

1



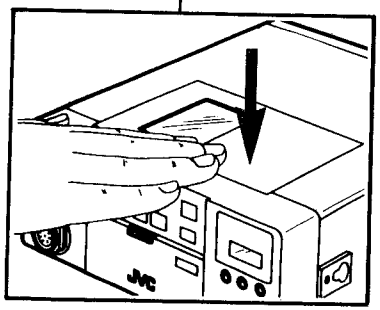
Open the cassette holder by sliding the EJECT button down.

2



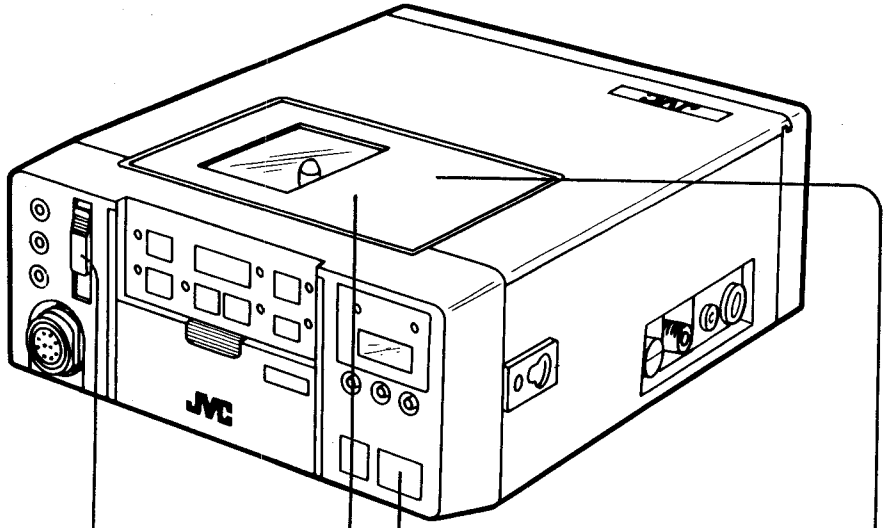
Insert the cassette.

3



Close the cassette holder.

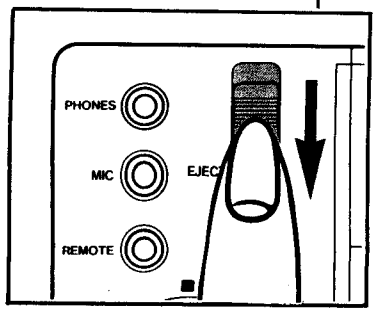
REMOVING A VIDEO CASSETTE



Make sure the recorder is in the Stop mode and the REC LOCK switch is OFF.

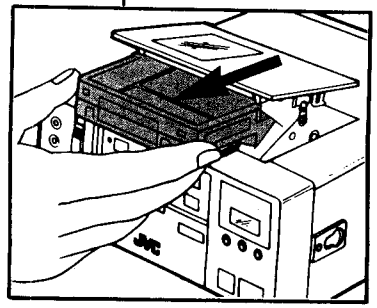
POWER button

1



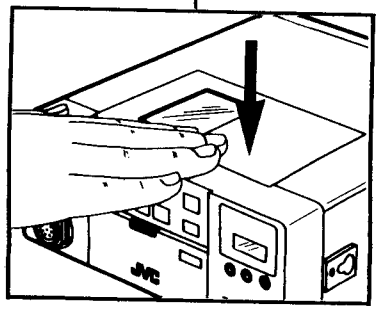
Slide the EJECT button down.

2



Remove the cassette.

3



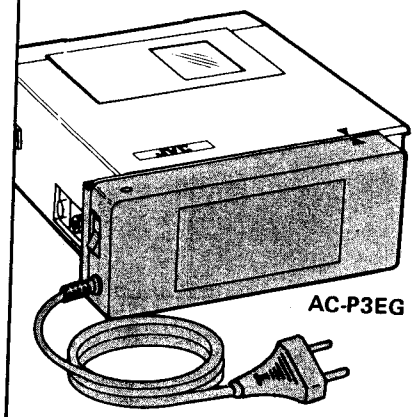
Close the cassette holder.

POWER SUPPLY SYSTEM

The convenient 3-way power supply system gives you a choice of the most appropriate power supply unit, depending on the application.

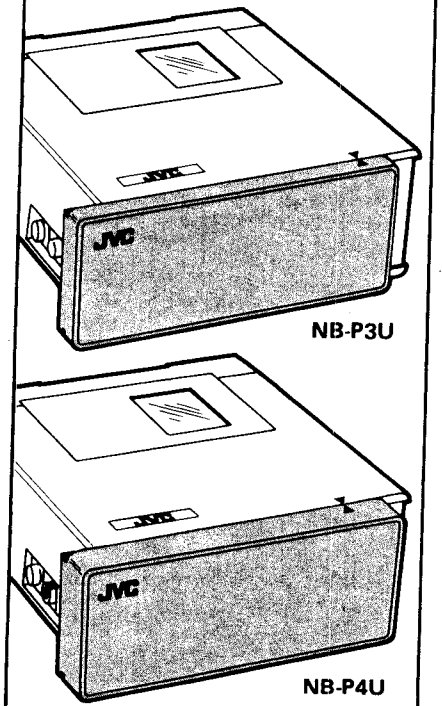
With AC power

Use the optional AC-P3EG AC power pack.



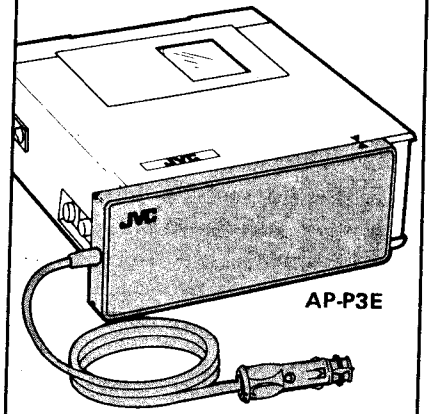
Where AC power is not available

Use the NB-P3U battery pack provided or the optional NB-P4U high-capacity battery pack.



In a car

Use the optional AP-P3E car battery adapter.

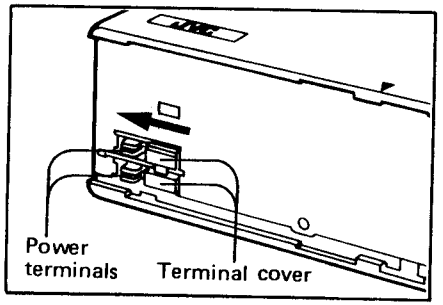


● Recharging procedure on page 13.

ATTACHING & REMOVING POWER SUPPLY UNITS

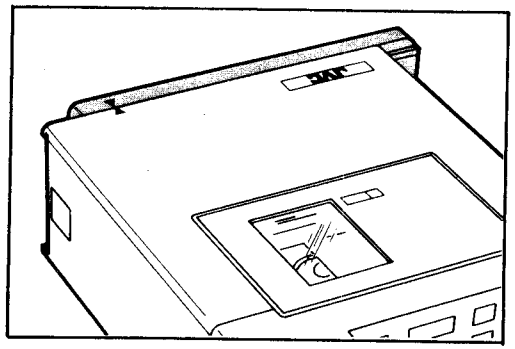
- The method of attachment and removal is identical for all power supply units.
- Be sure to switch off all power switches before attachment or removal.

- Check to see if the power terminals on the rear of the unit are covered with the terminal cover. If not, slide the terminal cover in the direction of the arrow.



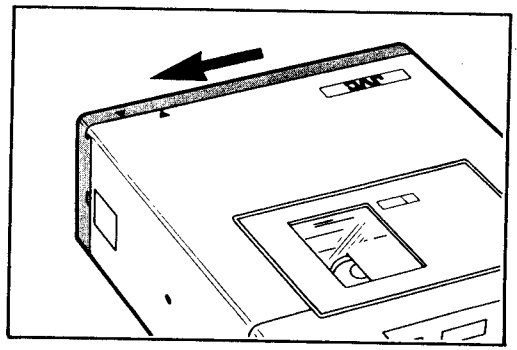
To attach

1



Align the marks.

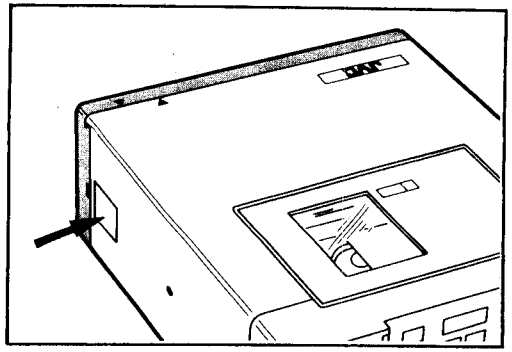
2



Slide until the unit locks in place.

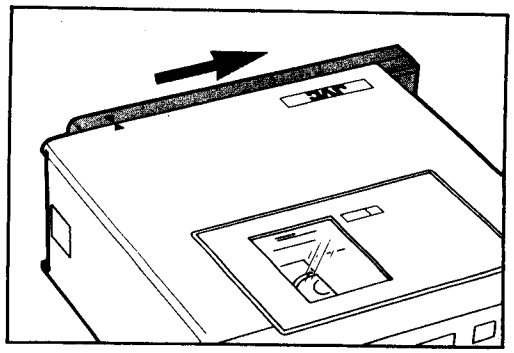
To remove

1



While pressing the release button . . .

2

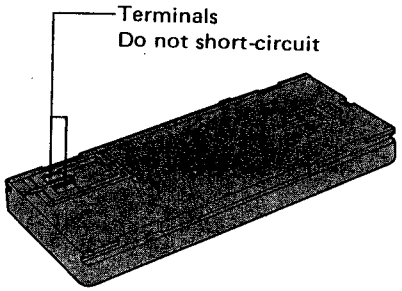


. . . slide off.

CHARGING THE BATTERY PACK

A WORD ON THE EXCLUSIVE NB-P3U/NB-P4U BATTERY PACKS

The NB-P3U/NB-P4U are nickel-cadmium batteries. Give attention to the following to make the most of their characteristics.



Temperature ranges:
The recharging time is based on room temperature of 20°C with a power supply of 220 V. The lower the temperature, the longer the recharging time.

For charging:	10°C to 35°C
For operating:	-10°C to 40°C
For storing:	-10°C to 30°C

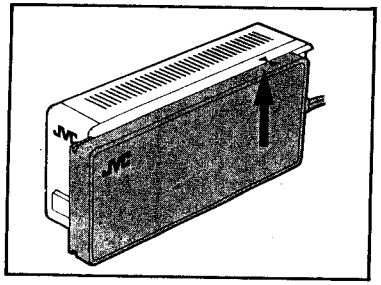
The battery pack has been kept in the uncharged state for shipment. Therefore, before use, charge it.

- **Avoid repeated charging.**
  Charging the battery pack repeatedly without using it may cause over-charging and shorten its service life.
- **Recharge using only a specified charger at 10° to 35°C.**
  Especially avoid recharging in a place under 10°C, as it may cause over-charging.
- **After use, store in a discharged condition.**
- **Do not store in places of high temperatures.**
  Choose a dry place with temperatures between -10°C and 30°C for optimum storage.
- **The battery pack becomes warm immediately after being charged. This is not due to any defect.**

Caution
The terminals are exposed on the bottom of the battery pack. DO NOT short-circuit these terminals.

- If they are shorted, a great amount of current flows. This is not only very dangerous, but also makes the battery pack unusable.
- When transporting or storing the battery pack, exercise special care so that no metallic object touches the terminals.
- Always keep the terminals clean. If they become dirty, wipe them with a piece of soft cloth.
- The fully charged NB-P3U battery pack provides power to the HR-C3 and a video camera (whose power consumption is about 6 watts) for about 30 minutes of continuous recording; the NB-P4U, for about 50 minutes.

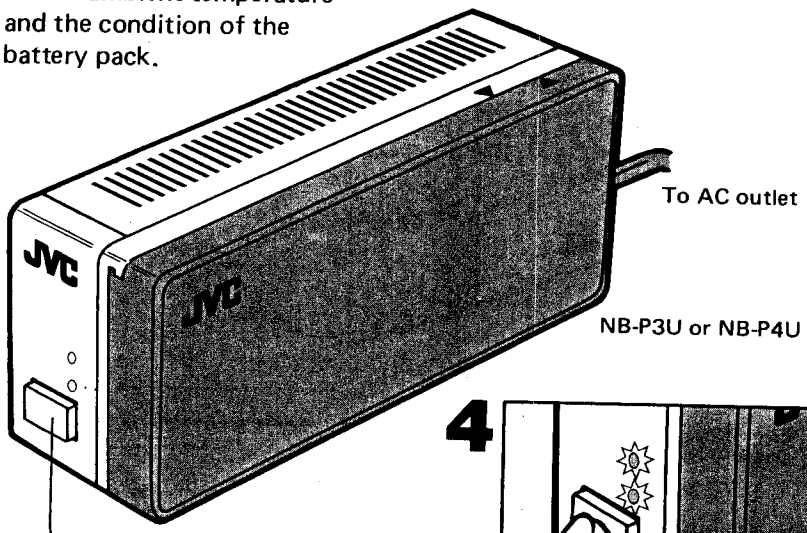
1



Align the marks.

Use the BB-P3EG battery charger (provided). Charging time is about 60 minutes for a regular battery pack and 90 minutes for a high-capacity battery pack.

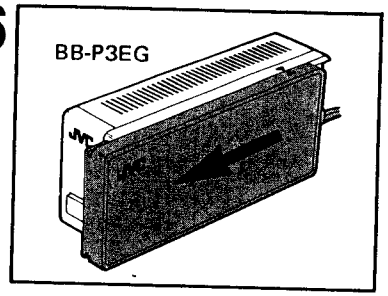
- The charging time differs depending on the ambient temperature and the condition of the battery pack.



Note:

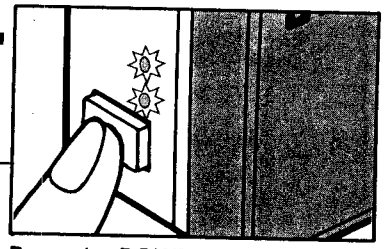
- If the terminals on the charger are exposed, attaching the battery pack is impossible. Move the cover over the terminals by hand.

6



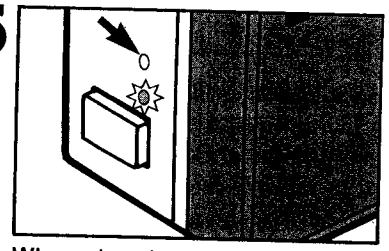
Remove the battery pack by sliding it off.

4



Press the POWER button. The POWER indicator will light first and the CHARGE indicator will light in a few seconds.

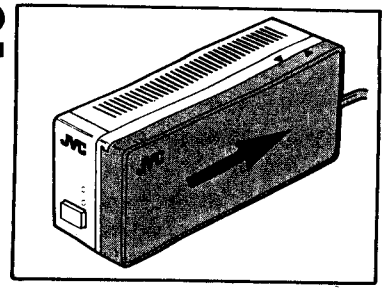
5



When charging is completed, the CHARGE indicator goes out.

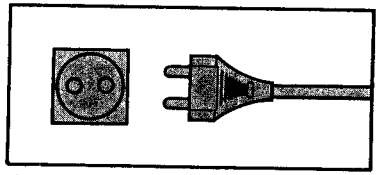
- If the POWER button is left in its ON position after the CHARGE indicator goes out, additional charging continues with a small amount of current.

2



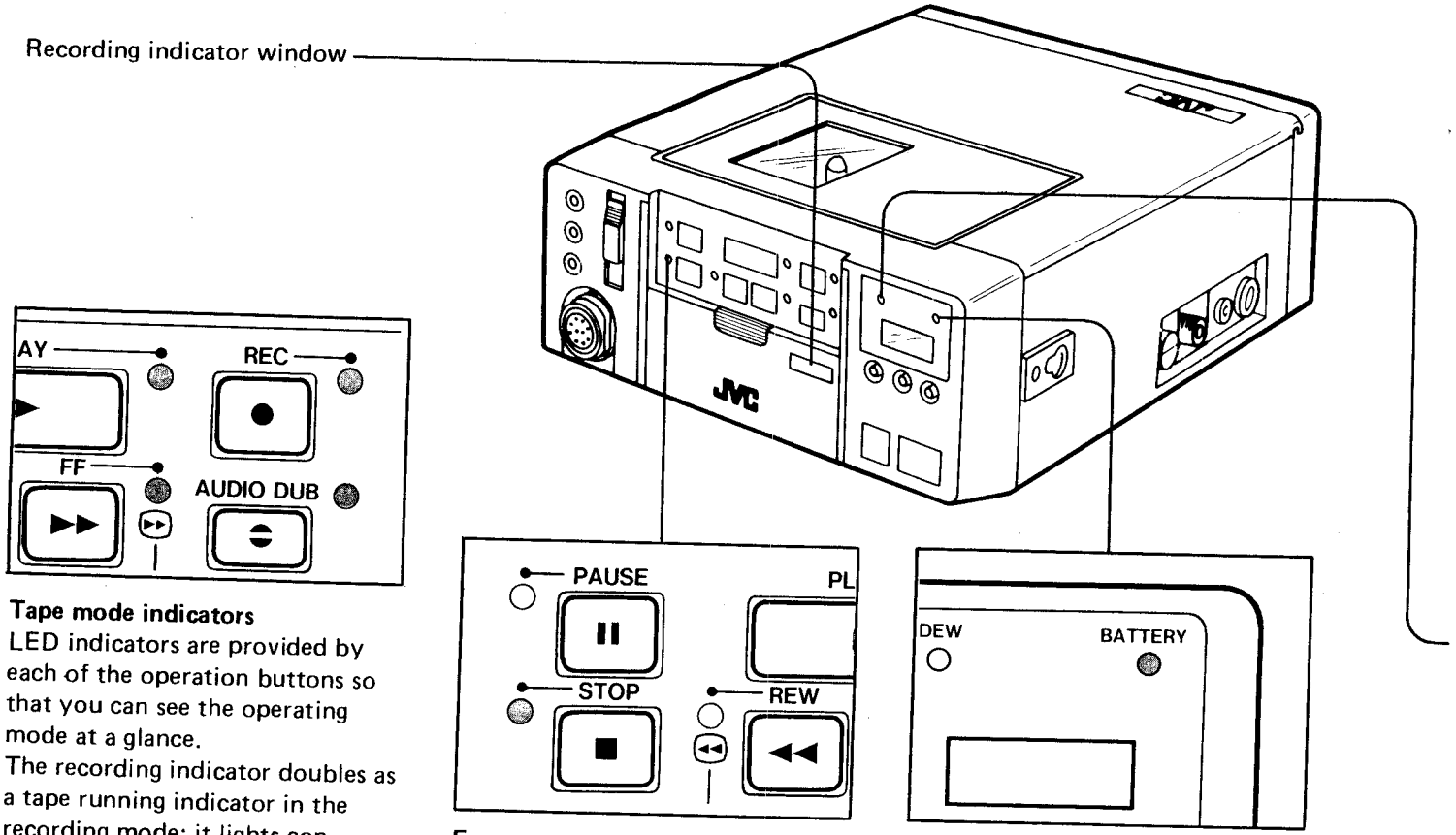
Slide until it locks in place.

3



Connect to a wall outlet.

INDICATORS

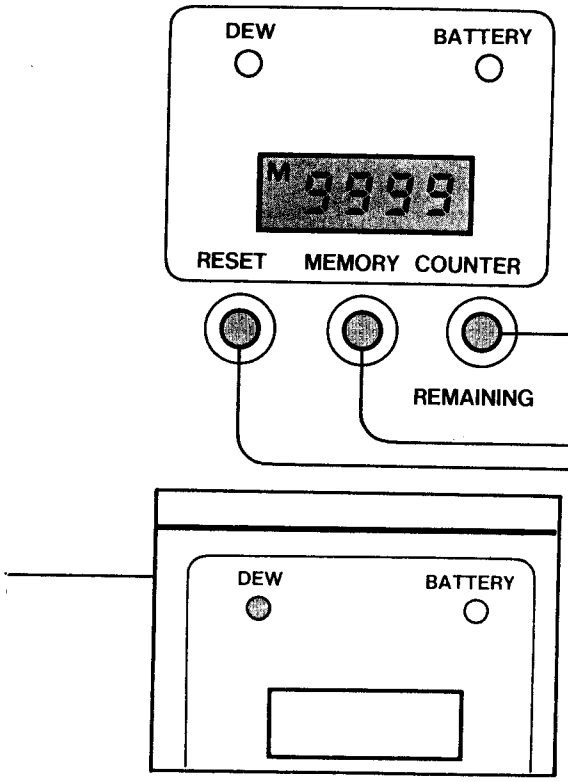


Tape mode indicators
LED indicators are provided by each of the operation buttons so that you can see the operating mode at a glance.
The recording indicator doubles as a tape running indicator in the recording mode; it lights continuously in the recording standby mode and flickers when the tape is running.
A recording indicator window is provided on the front panel slide cover for checking the recording mode with all the tape control buttons covered.

Emergency mode indicator
When the recorder fails to function properly, the STOP indicator flickers and the power will be switched off automatically after a short while. In such a case, press the POWER button to OFF and press it again to ON after a few seconds.

Battery warning indicator
This LED lights when there is insufficient battery power for normal operation, warning you that you should replace or recharge the battery pack. If you continue operating the recorder in this condition, the power will be switched off automatically.

Tape counter/Remaining time display



This is normally a 4-digit tape counter showing the amount of tape consumed. When the REMAINING button is pressed, the display shows the amount of tape left in minutes and seconds.
When power is switched off with the counter in the Remaining Time mode, the counter enters the Tape Counter mode automatically when power is switched on again.
The counter reading is held in memory for about one hour after the power is switched off; if you switch power on again within this period, the previous counter reading will be displayed.

REMAINING button
When this button is pressed, the counter enters the Remaining Time mode and displays the approximate amount of tape remaining in terms of time.
More than 5 minutes remaining: Only minutes are displayed; 7:00, 6:00, 5:00, etc.
Less than 5 minutes remaining: Minutes and seconds are displayed; 4:59, 4:58, 4:57, etc.
To switch to the Tape Counter mode, press this button once again.

MEMORY button
With this button pressed, the tape stops automatically when the counter reads around "0000" in the Rewind and Fast Forward modes. This is convenient when you want to locate a particular point on the tape. For more details, refer to page 25. When the MEMORY button is pressed, "M" appears in the tape counter display.

RESET button
To reset the tape counter to "0000".

Dew indicator
This LED lights when there is condensation on the head drum; when it lights, the recorder cannot be used. If this dew warning lights when you have switched on the recorder, you must turn off the unit and wait for a few hours until the indicator no longer flashes when power is applied.

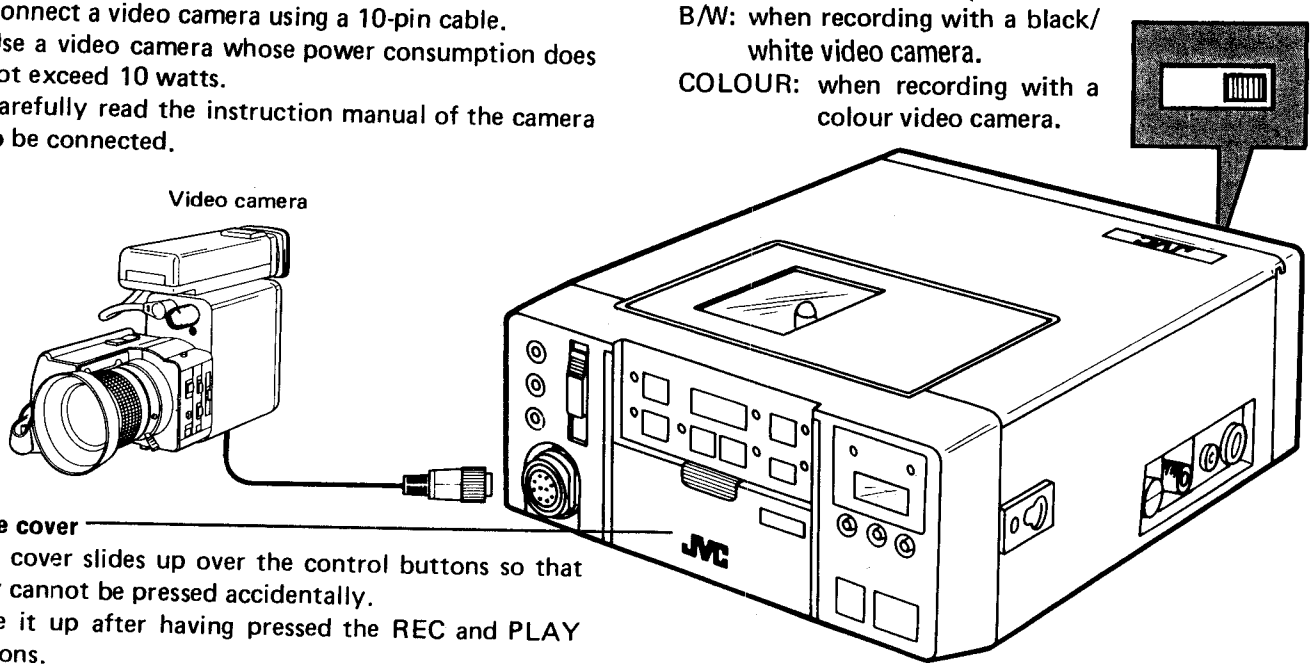
Notes
- The remaining time display does not function during fast forward or rewind.
- The remaining time indicator will present this display for about 10 seconds while it evaluates the amount of tape remaining.

RECORDING WITH A CAMERA

Connection

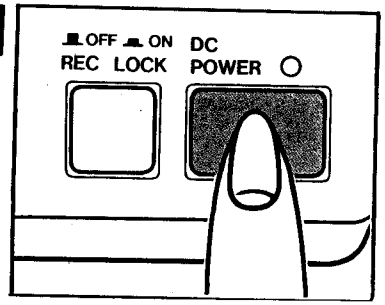
- Connect a video camera using a 10-pin cable.
- Use a video camera whose power consumption does not exceed 10 watts.
- Carefully read the instruction manual of the camera to be connected.

Before attaching the power supply unit, set the video mode select switch as required:
B/W: when recording with a black/white video camera.
COLOUR: when recording with a colour video camera.



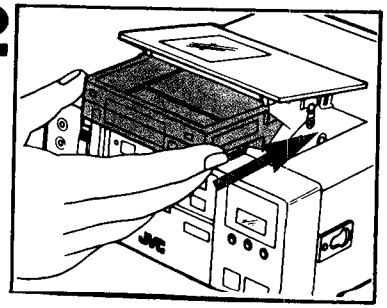
Slide cover
This cover slides up over the control buttons so that they cannot be pressed accidentally.
Slide it up after having pressed the REC and PLAY buttons.

1



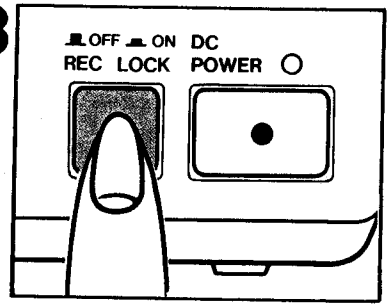
Press the POWER button to ON.

2



Insert a video cassette.

3



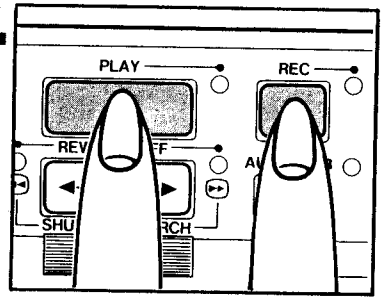
Press the REC LOCK button to ON. (For the function of this button refer to page 19.)

Monitoring the playback picture on the camera's viewfinder

The electronic viewfinder enables you to check the recorded material on the spot. To monitor, first rewind the tape, then press the PLAY button.

You may have difficulty viewing the very beginning of a tape; to view the first few seconds of a tape that has just been rewound, press the EJECT button, and then reclose the cassette holder; reloading the tape in this fashion winds it back to the very beginning.

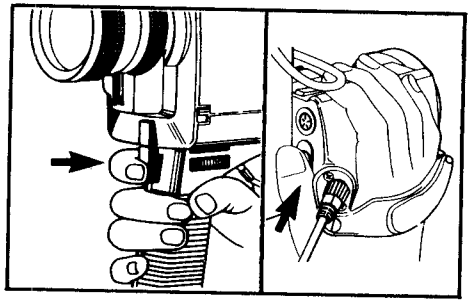
4



Press the REC and PLAY buttons simultaneously.

- Make sure that the camera's start/stop switch is in its "stop" position.

5



When you are ready to start recording, press the camera's start/stop switch.

- To temporarily stop recording, simply press the camera's start/stop switch. If this standby mode continues for longer than 5 minutes, power is automatically shut off. To continue shooting, press the POWER button to ON and operate the camera's start/stop switch.

To end recording

Press the STOP button. Then press the REC LOCK and POWER buttons to OFF in that order.

AUTOMATIC BACKSPACE EDITING & RECORDING STANDBY LOCK

The REC LOCK switch is to avoid unnecessary power consumption while in the Recording Standby mode and keeps the tape loaded so that the automatic backspace editing functions to make clean assembled edits when recording is resumed.

Notes

- Playback cannot be started when the REC LOCK button is ON.
- The EJECT button does not function when the REC LOCK button is ON.

A

During playback → PAUSE → POWER OFF → STOP (The tape is unloaded.)

B

During recording → PAUSE* → POWER OFF → STOP (The tape is unloaded.)

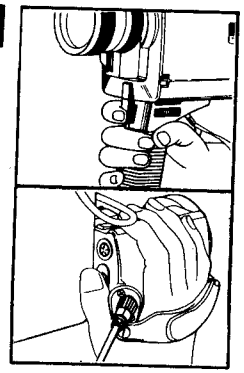
C

During recording → PAUSE* → REC LOCK ON → POWER OFF → PAUSE (Standby) (The tape remains loaded and, when power is reapplied, recording starts automatically.)

* Entering the Pause mode during recording, the tape rewinds (backspaces) automatically for about 1 second. The automatic Quick Review function allows you to view the playback picture during this 1-second backspacing period for a convenient check of your recording.

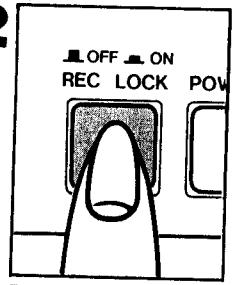
Use the REC LOCK button effectively during camera recording.

1



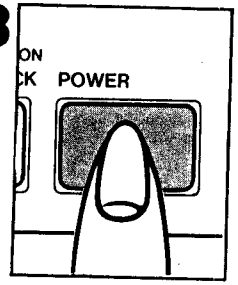
Stop the camera. (The recorder enters the Pause mode.)

2



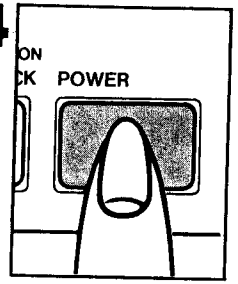
Press the REC LOCK button to ON.

3



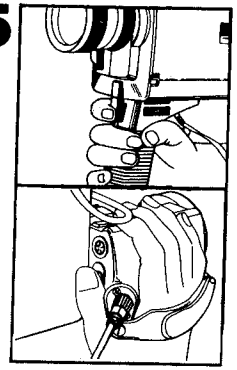
Switch off the power. (Take time to prepare for the next shot.)

4



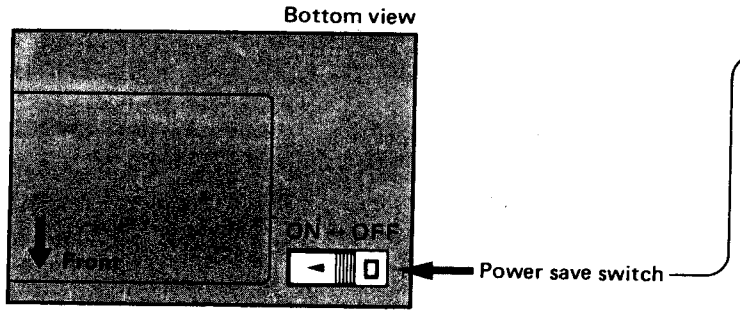
Switch on the power.

5



Start the camera after about 10 seconds.

POWER SAVE FUNCTION



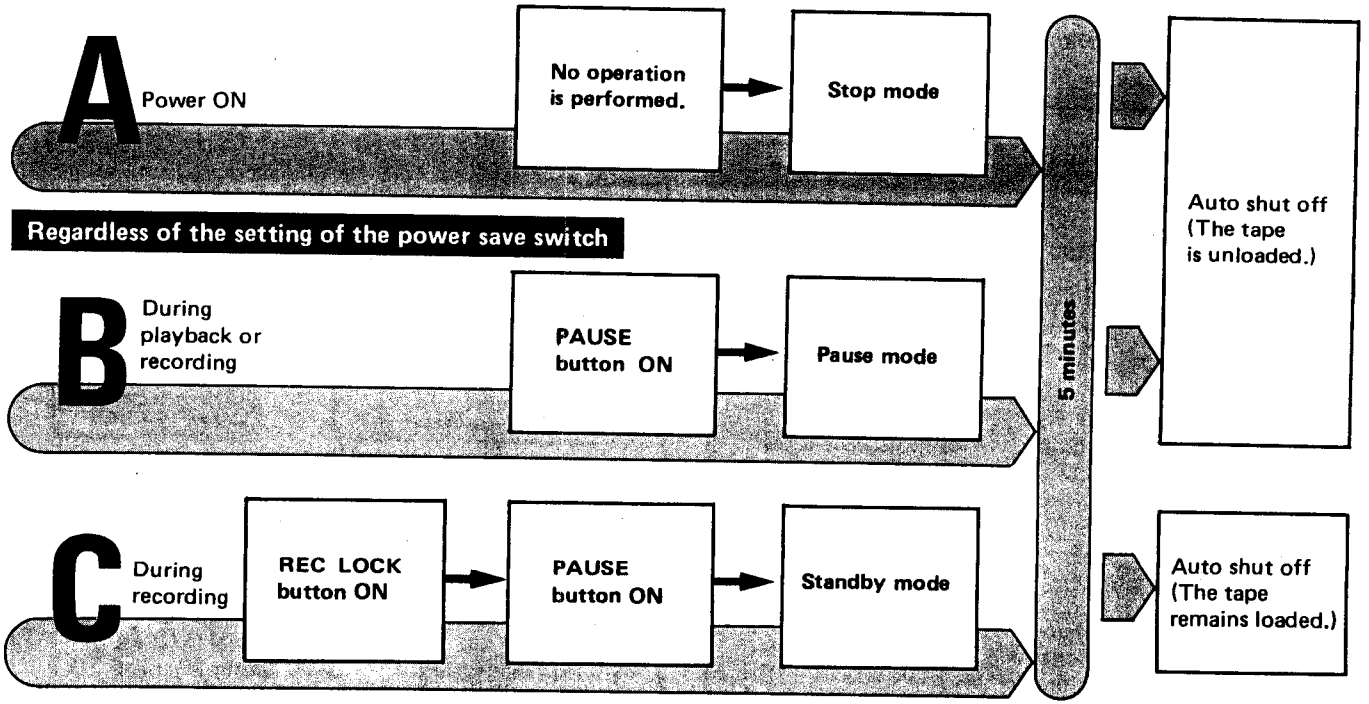
In its ON position, this switch saves power by automatically switching off power if the unit remains in the Stop mode for more than 5 minutes.

Prior to shipment, this switch has been set to ON. If inconvenience results from this condition, reset the switch.

Slide the cover to the left.

Reset the switch to the right with a small screwdriver.

With the power save switch ON

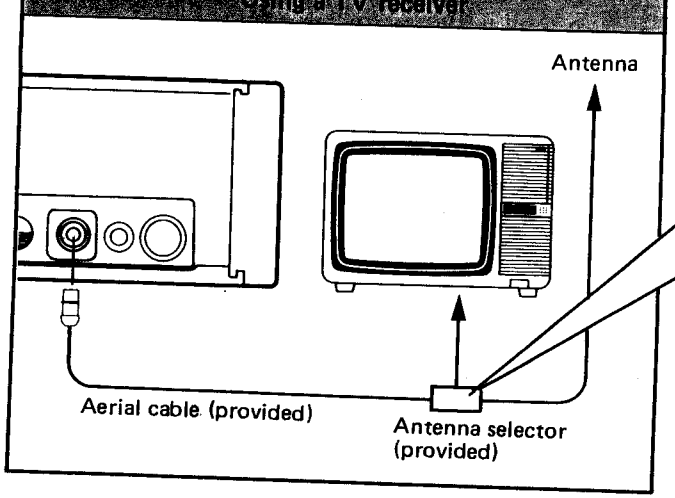


Regardless of the setting of the power save switch

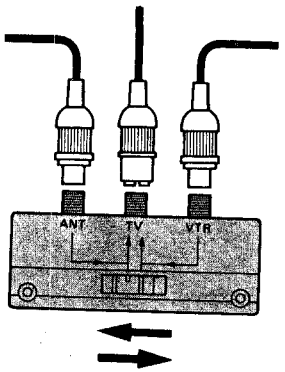
PLAYBACK

Connection

Using a TV receiver



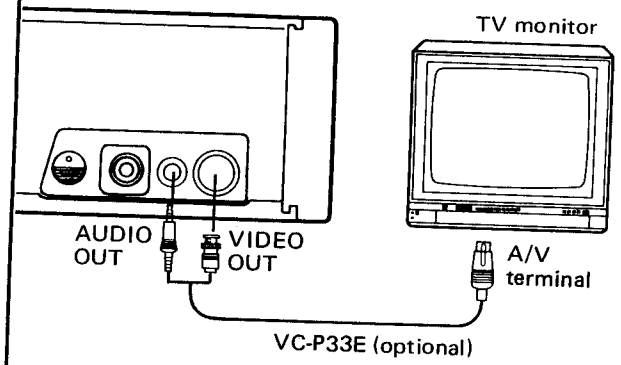
How the antenna selector works



- Switch the antenna selector to "ANT" to view a broadcast TV programme.
- Switch the antenna selector to "VTR" to view a video tape. When checking what has just been recorded, also switch to "VTR". Then, turn the TV channel to your video channel.

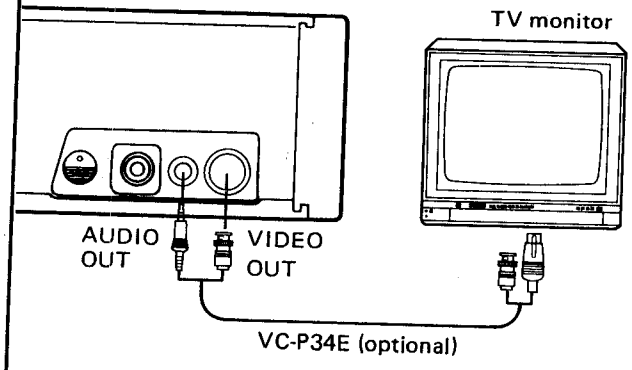
This connection lets you view both TV broadcasts and video tapes with a single TV receiver.

Using a TV monitor (I)



If your TV set is equipped with an A/V connector, use the VC-P33E optional A/V cable to connect the HR-C3 to your TV set for playback.

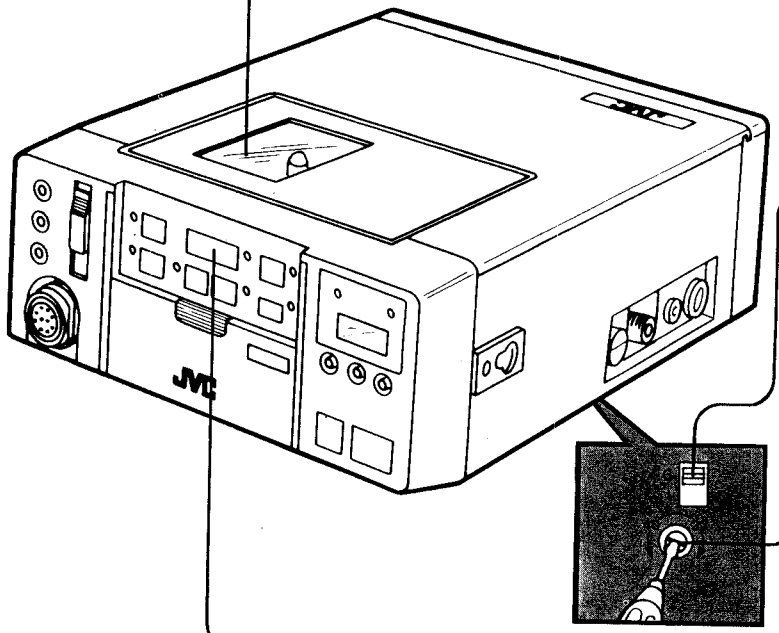
Using a TV monitor (II)



If your TV set is equipped with audio and video input connectors, use the VC-P34E optional A/V cable to connect the HR-C3 to your TV set for playback.

Operation

Insert a prerecorded cassette.



Note:

- Playback cannot be started when the REC LOCK button is ON.

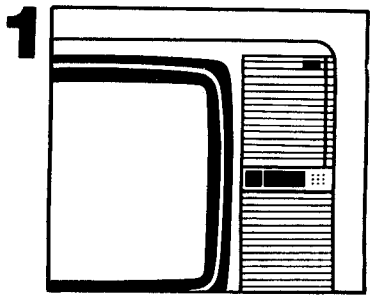
When you use a TV receiver built to the British PAL standard, shift the system select switch to I.

RF CONVERTER ADJUSTMENT

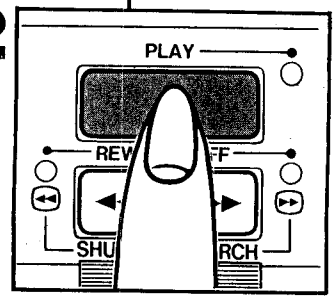
The HR-C3 incorporates an RF converter for playback using a TV receiver. The output of the RF converter can be seen on the TV screen on a vacant channel which is not used for public broadcasting. The RF converter in this unit has been set to UHF channel 36 before shipment. If channel 36 is employed for broadcasting in your area, reset the RF converter channel to one of the vacant channels between 32 and 40 as follows:

1. Adjust the TV receiver channel to one of the vacant channels.
2. Connect a video camera and switch the power on for the recorder.
3. While monitoring the camera signal on the TV screen, turn the RF converter channel adjustment screw in either direction so that the monitored picture comes in most clearly.

- When you wish to view video cassette programmes, always set the TV receiver's channel selector to your VIDEO CHANNEL.



Set your TV to your video channel.

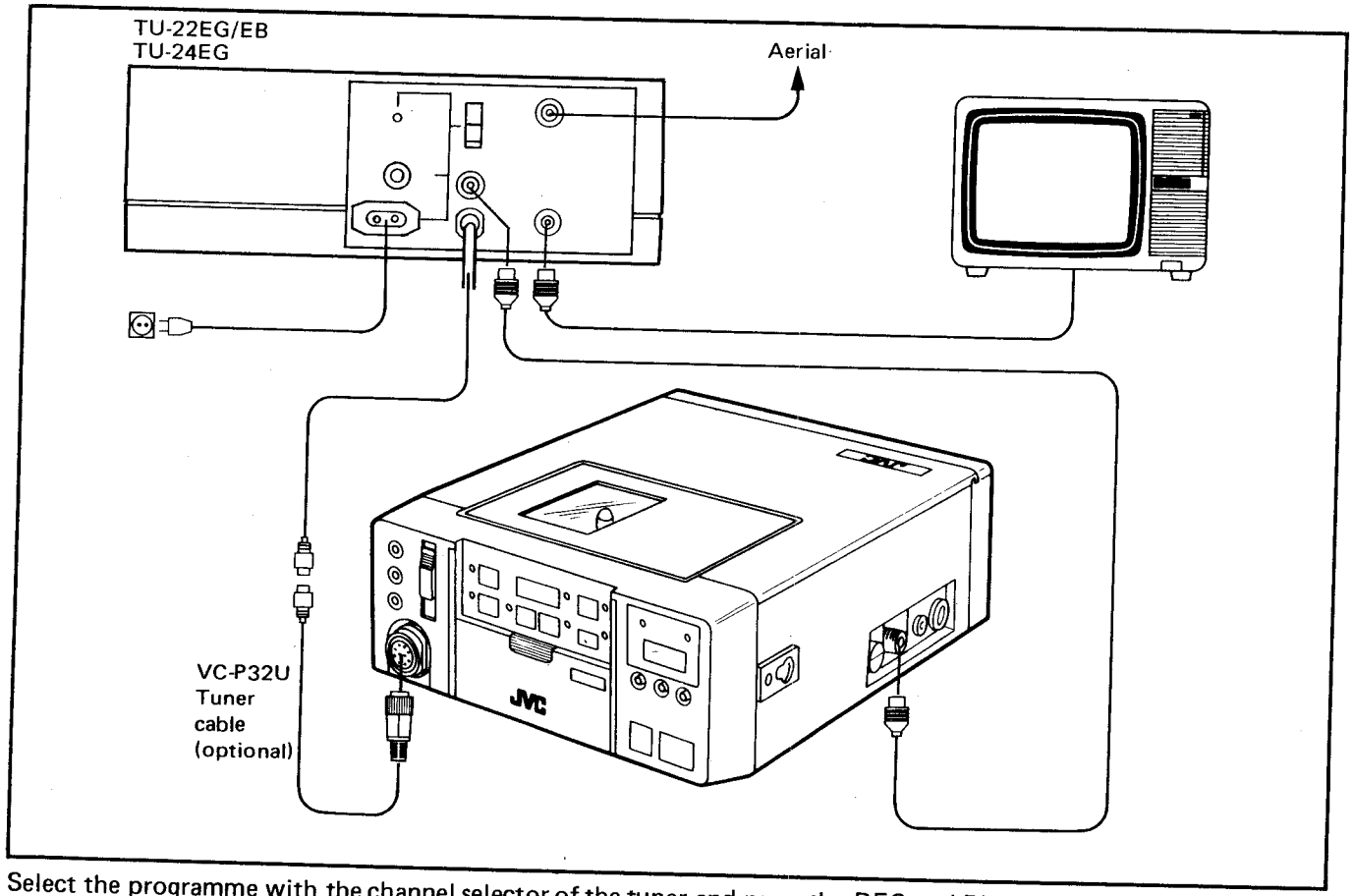


Press the PLAY button.

RECORDING TELEVISION PROGRAMMES

Connection

- Use the TU-22EG/EB or TU-24EG tuner and connect its output cord to the CAMERA connector of the HR-G3 using the optional VC-P32U tuner cable.

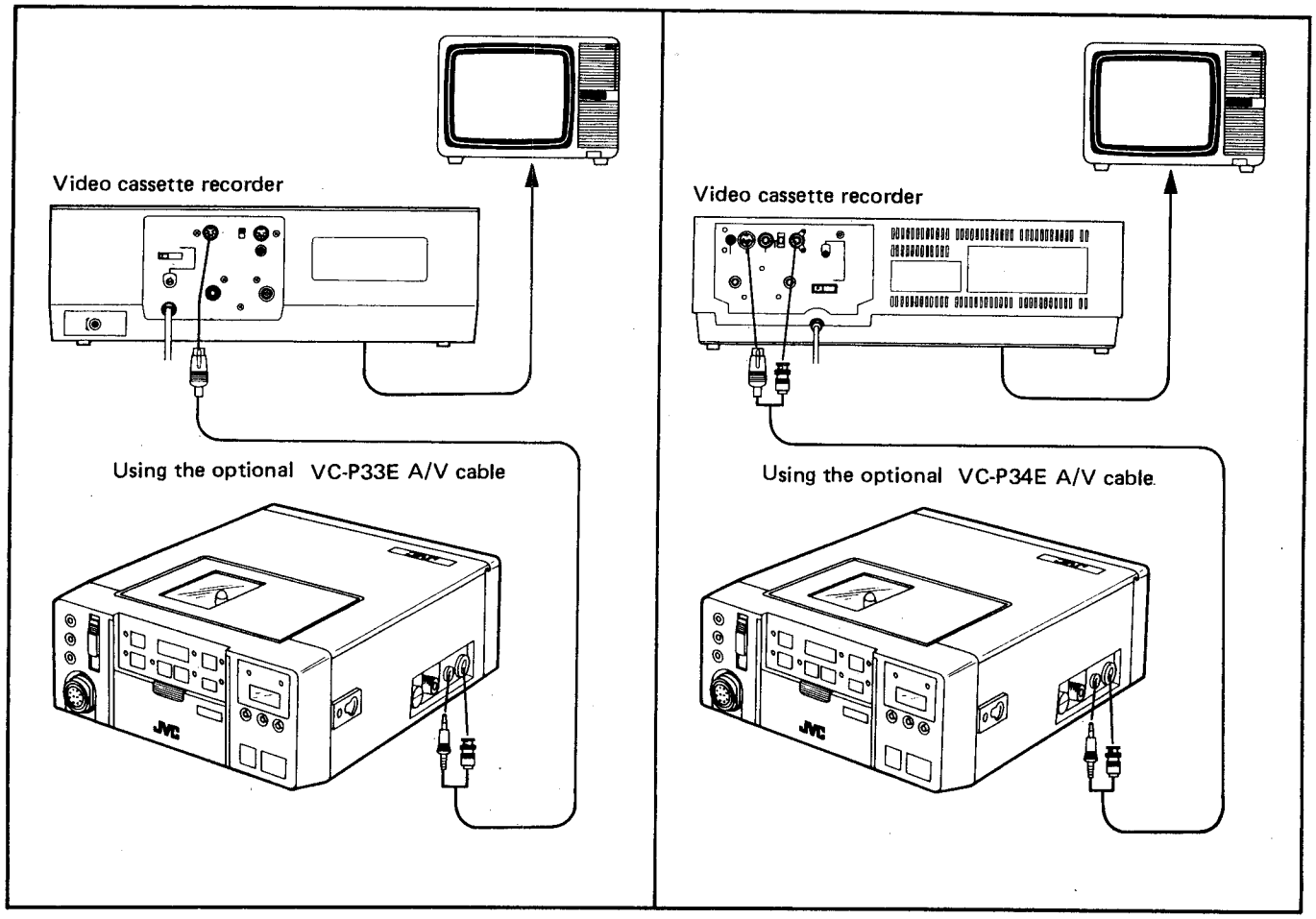


Select the programme with the channel selector of the tuner and press the REC and PLAY buttons simultaneously.

- Recording one programme while watching another is possible. Refer to the instruction manual for the TU-22EG/EB or TU-24EG.
- Timer recording is not possible using the HR-G3.

TAPE-TO-TAPE DUBBING

Dubbing onto another video recorder

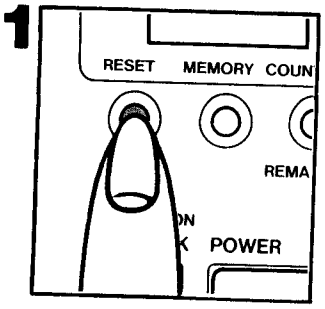

Video cassette recorder
Using the optional VC-P33E A/V cable
Video cassette recorder
Using the optional VC-P34E A/V cable

Play back the tape to be dubbed with the HR-C3 and put the 2nd video recorder in the Record mode.

OTHER CONVENIENT FEATURES

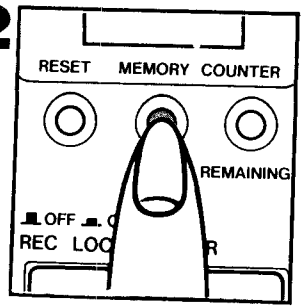
Memory counter
This lets you accurately and quickly locate and play back any required section of the tape.

1



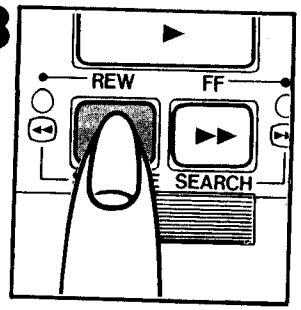
During playback or recording, press the RESET button at the beginning of the section you want to play back.

2



At the end of recording or after playing back the required section, press the MEMORY button; M now appears in the display.

3

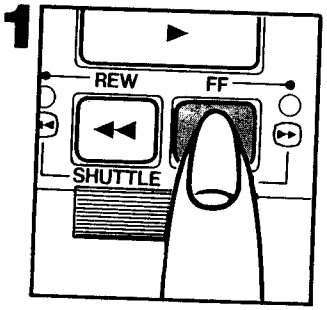


Press the rewind button; the tape will rewind to the position where the counter reading is "0000" and then rewinding will stop.

Shuttle Search
This lets you fast forward and rewind the tape at 3 times normal speed while watching the speeded up picture, to quickly check the content of any section.

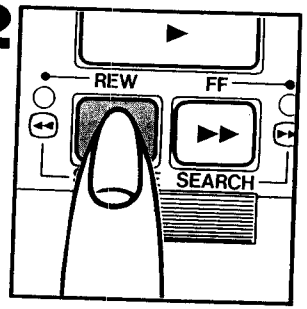
Start playback.

1



To shuttle search forward, continue pressing the FF ⏩ button while in the Play mode.

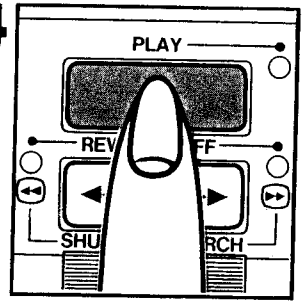
2



To shuttle search in the reverse direction, continue pressing the REW ⏪ button while in the Play mode.

Release your finger; normal playback will resume.
Noise bars in the picture during shuttle search are inevitable.

4



Now press the PLAY button. The required section will be played back.

- The memory counter functions in the fast forward mode as well.

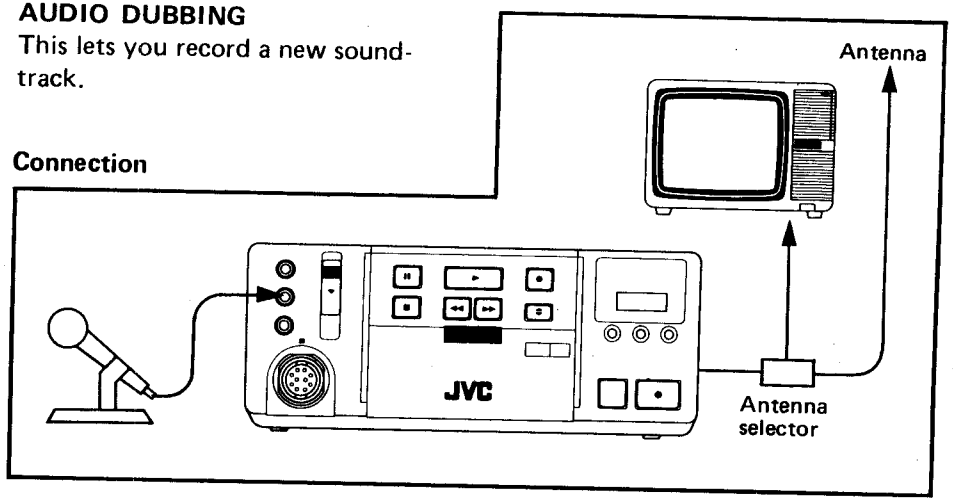
Tracking control

If the playback picture contains noise bars, turn the TRACKING control knob to centre. If noise bars still appear, turn the knob slowly in either direction until they move out of the screen. Recording should always be done with this control returned to centre.

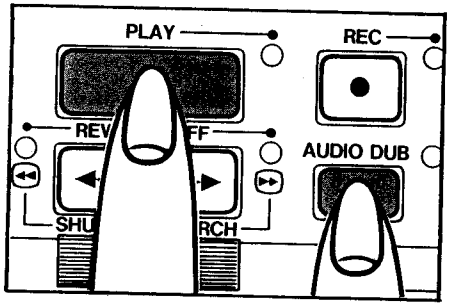
AUDIO DUBBING

This lets you record a new soundtrack.

Connection



Operation

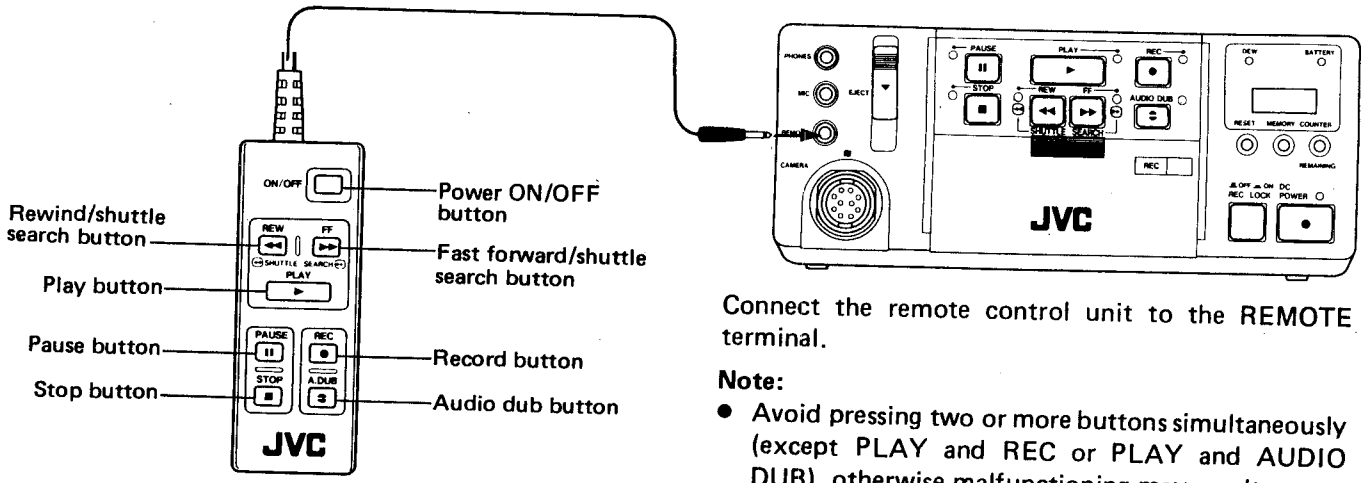


- Load the cassette on which you want to record a new soundtrack.
- Set the TV to the video channel.
- Switch on the power.
- Press the PLAY and AUDIO DUB buttons together.
- Now, while watching the video part of the programme on the TV, you can add the narration by speaking into the microphone.
- To stop audio dubbing, press the STOP button.

Notes:

- The previously recorded sound is erased and replaced with a new soundtrack by audio dubbing.
- The pause function facilitates audio dubbing. First play back the prerecorded tape and press the PAUSE button at the point from which you wish to start audio dubbing. Then press the AUDIO DUB and PLAY buttons simultaneously. This permits you to start audio dubbing exactly at the right point.

REMOTE CONTROL

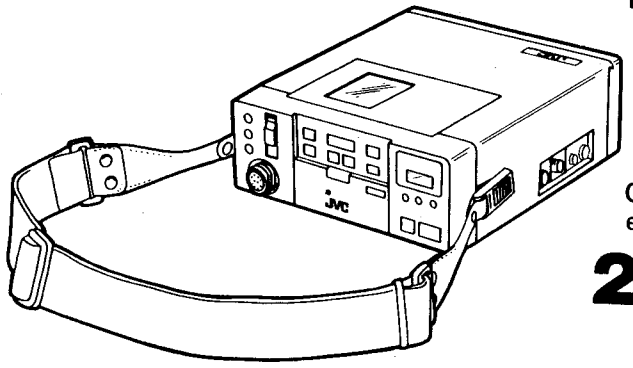


Connect the remote control unit to the REMOTE terminal.

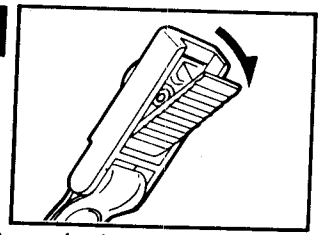
Note:

- Avoid pressing two or more buttons simultaneously (except PLAY and REC or PLAY and AUDIO DUB), otherwise malfunctioning may result.

ATTACHING THE SHOULDER STRAP

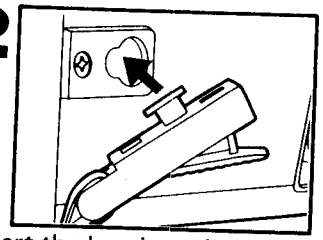


1



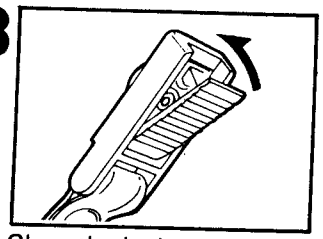
Open the lock caps on both ends of the shoulder strap.

2



Insert the lugs into the holes.

3

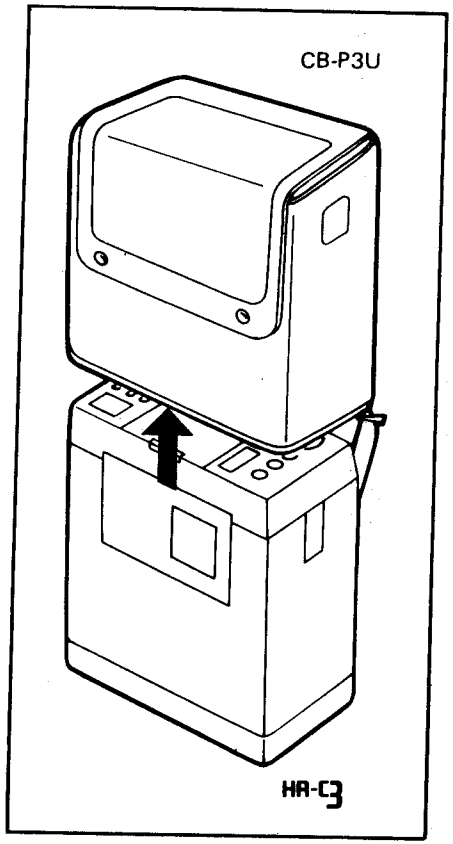


Close the lock caps.

To remove the shoulder strap, first open the lock caps.

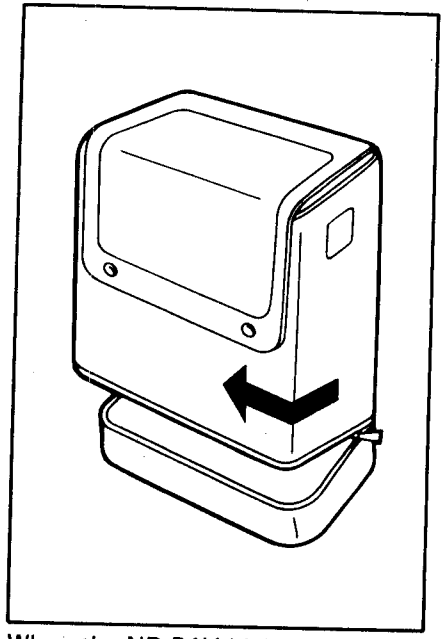
CARRYING CASE

1



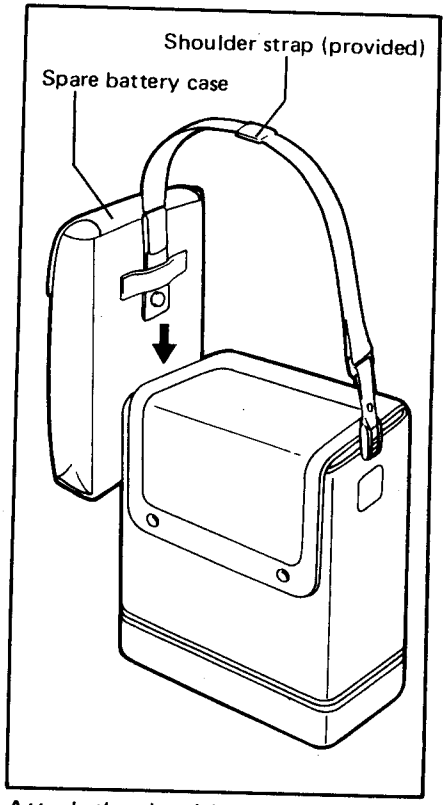
Open the bottom cover and insert the HR-C3 from below as illustrated.

2



When the NB-P4U high-capacity battery pack is attached to the HR-C3, remove the sponge block. With the NB-P3U regular battery pack, leave the sponge block inside the bottom cover. Zip the cover closed.

3



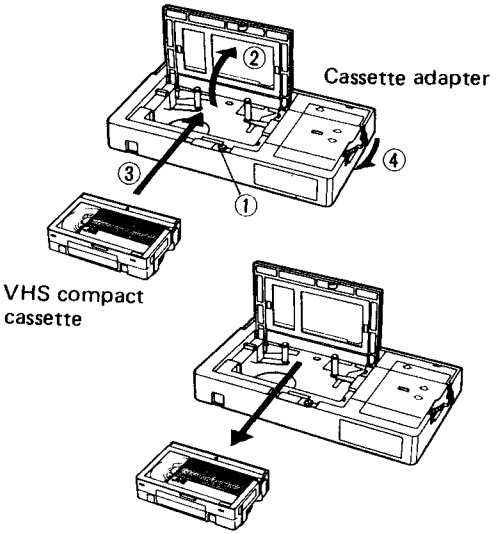
Attach the shoulder strap.

CAUTION

The carrying case is equipped with a belt loop. However, avoid carrying the recorder by attaching it only to your belt. This belt loop is to further stabilize the recorder and hold it next to your body when you are carrying it with the shoulder strap.

CASSETTE ADAPTER C-P2U (Optional)

The VHS compact video cassette can be played back (or even recorded) with a standard VHS machine by using the optionally available cassette adapter.



Inserting a compact video cassette

1. Push the sliding latch in the direction of the arrow.
2. Open the compartment door.
3. Insert the compact video cassette into the adapter and close the compartment door.
4. Turn the loading gear in the direction of the blue LOADING arrow until the indicator window is completely blue.

Removing the compact video cassette

1. Turn the loading gear in the direction of the red UNLOADING arrow until the indicator window is completely red.
2. Push the sliding latch in the direction of the arrow to open the compartment door.
3. Using the smaller hole on the underside of the adapter, push the cassette up from below and remove it.
4. Close the compartment door.
5. Put the compact cassette in its case for storage.

- For more detail refer to the instruction manual for the C-P2U.

IN CASE OF DIFFICULTY

Symptoms	Check points
No power.	• Is the battery pack correctly installed? • Is the battery pack charged? • Is the POWER switch of the connected AC power pack set to ON? • Is the car battery adapter correctly plugged in?
Playback is impossible.	• Is the REC LOCK button ON? Press it to OFF.
Recording or audio dubbing is impossible.	• Check to see if the cassette safety tab is in place. Refer to page 4.
Tape stops during fast forward or rewind.	• Is the "M" indication visible in the tape counter? If so, press the MEMORY button to cancel the memory function.
Rewinding or fast forwarding is impossible.	• Check to see if the tape has already been fully wound to one reel or the other.
Tape is running, but no playback picture.	• Is the TV receiver set to your video channel? • If a TV monitor is used, is its TV/VIDEO switch set to VIDEO?
Noise bars appear in the playback picture.	• Use the TRACKING control to remove noise bars. Refer to page 26.
Playback picture is blurred or interrupted while TV programs received are clear.	• Video heads may be dirty or worn out. For head cleaning or replacement, consult the nearest JVC dealer.

HR-C3EG SPECIFICATIONS

Format	: VHS standard
Video signal system	: PAL-type colour and CCIR monochrome signals, 625 lines
Video recording system	: Luminance: FM recording Colour: Phase shift & converted subcarrier direct recording Rotary, slant azimuth, two-head helical scan system
Tape width	: 12.65 mm
Tape speed	: 23.39 mm/sec
Playing time	: 30 minutes with EC-30 compact video cassette
Rewind time	: Approx. 1 minute with EC-30 video cassette
Fast forward time	: Approx. 2 minutes with EC-30 video cassette
Shuttle search speed	: Approx. 3 times normal speed
Video	
Input	: 0.5 to 2.0 Vp-p, 75 ohms
Output	: 1.0 Vp-p, 75 ohms
S/N ratio	: 43 dB (with Rohde & Schwarz noise meter)
Picture resolution	: 250 lines
Audio	
Mic input	: -67 dBs, high impedance, unbalanced
Line output	: -6 dBs, less than 1 k-ohm, unbalanced
Frequency range	: 70 Hz to 10 kHz
S/N ratio	: 40 dB
RF converter	
VHF output channel	: UHF 32 – 40 (adjustable)
Channel setting	: Set to UHF 36 prior to shipment
Power requirement	: 12 V DC⎓
Power consumption	: 6 watts (16 watts with camera) (4.9 watts, nominal in the record mode)
Weight	: 2.0 kg 2.4 kg including battery pack
Dimensions	: 182(W) x 75.5(H) x 203(D) mm Depth extended to 215 mm with the NB-P3U attached
Temperature	: Operating: 0°C to 40°C Storage: -20°C to 60°C

Provided accessories

- Remote control unit RM-P3U
- Regular battery pack (0.7 AH) NB-P3U
- Battery charger BB-P3EG
- Carrying case CB-P3U
- Antenna selector
- Shoulder strap
- Aerial cable x 2
- Video cassette (EC-30)

Optional accessories

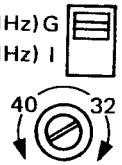
- Regular battery pack (0.7 AH) NB-P3U
- High-capacity battery pack (1.2 AH) NB-P4U
- Battery charger BB-P3EG
- AC power pack AC-P3EG
- Car battery adapter AP-P3E
- Cassette adapter C-P2U
- Tuner cable VC-P32U
- A/V cable VC-P33E
- A/V cable VC-P34E
- Video cassette (EC-30)

Design and specifications subject to change without notice.

AVERTISSEMENT

Cet appareil n'est compatible qu'avec le procédé couleur PAL.
N'y raccorder qu'une caméra de type PAL.

ATTENTION:
Pour éviter toute électrocution, ne pas ouvrir le boîtier. Aucune pièce intérieure n'est à régler par l'utilisateur. Se référer à un agent qualifié en cas de problème.



ATTENTION:
Le sélecteur de système placé sur le fond de l'appareil a été réglé sur G (PAL Continental avec une fréquence du son de 5,5 MHz).

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Cet appareil ne doit être utilisé que sur courant continu 12 V.
ATTENTION:
Pour éviter les risques d'incendie ou d'électrocution, NE PAS utiliser d'autres sources d'alimentation.

IMPORTANT: L'enregistrement d'émissions télévisées n'est permis que dans la mesure où les droits d'auteur et autres droits des tiers ne sont pas violés.

REMARQUE:
La plaque d'identification (numéro de série) et l'étiquette d'avertissement de sécurité se trouvent sous l'appareil.

VHS C
PAL

Ce magnétoscope à cassette compact a été spécialement conçu pour les cassettes vidéo VHS C. Seules les cassettes comportant le label VHS C peuvent être utilisées avec cet appareil.

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